

Data Path : Y:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060418\
 Data File : VX002282.D
 Acq On : 05 Jun 2018 01:52
 Operator : JC/MD
 Sample : J3269-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS004MW153-180529

Quant Time: Jun 05 07:22:19 2018
 Quant Method : Y:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	263498	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	382031	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	353363	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	204268	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	180918	47.87	ug/l	0.00
Spiked Amount			Recovery	=	95.74%	
35) Dibromofluoromethane	5.51	113	133266	44.36	ug/l	0.00
Spiked Amount			Recovery	=	88.72%	
50) Toluene-d8	8.72	98	551186	47.87	ug/l	0.00
Spiked Amount			Recovery	=	95.74%	
62) 4-Bromofluorobenzene	11.14	95	196015	44.14	ug/l	0.00
Spiked Amount			Recovery	=	88.28%	

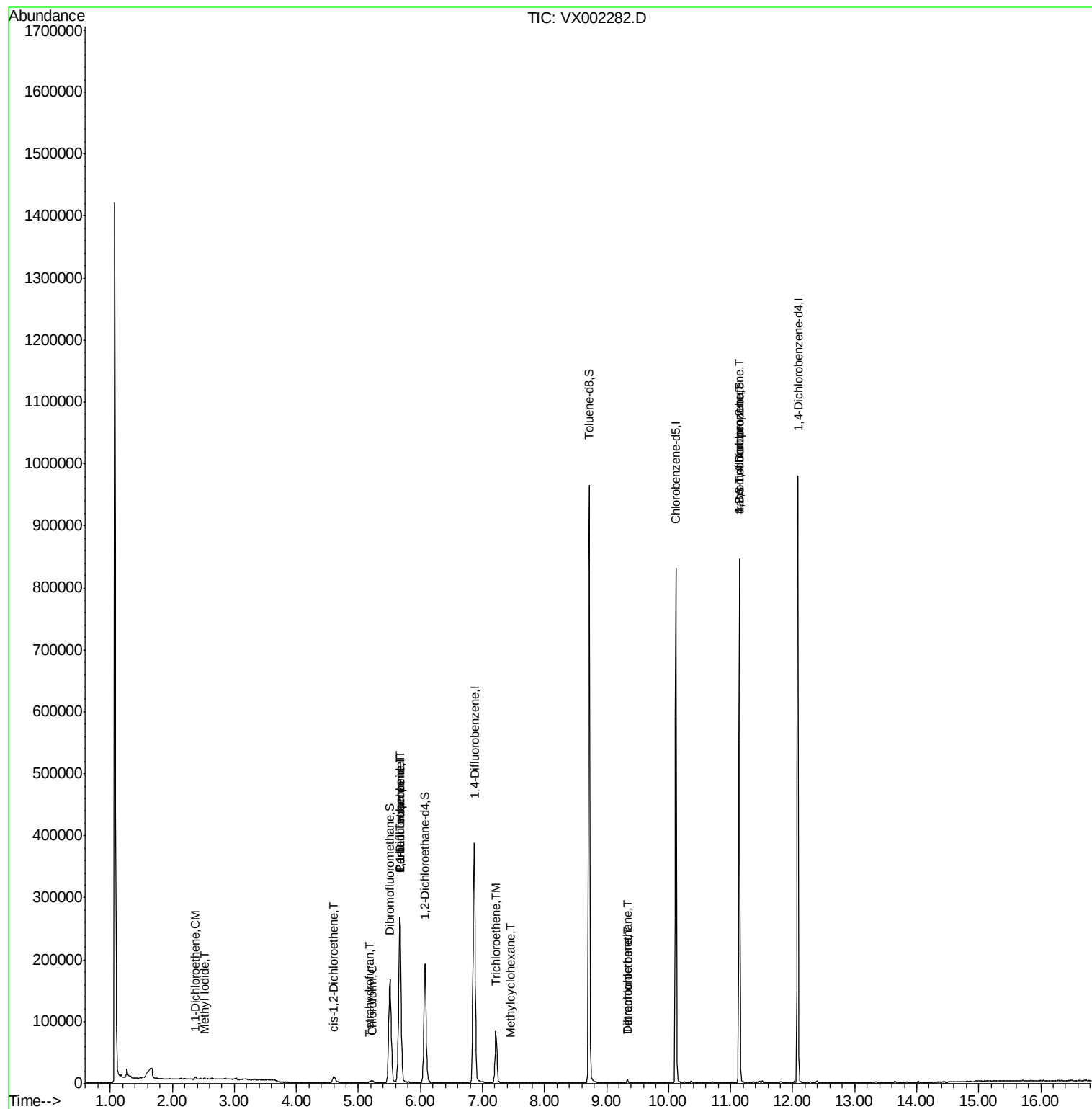
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1322	Below Cal		90
5) Bromomethane	1.64	94	1579	Below Cal		99
8) Diethyl Ether	2.18	74	44	Below Cal	#	1
10) Methyl Iodide	2.52	142	1630	0.41	ug/l	# 94
11) Tert butyl alcohol	3.02	59	1154	Below Cal	#	73
12) 1,1-Dichloroethene	2.37	96	989	0.35	ug/l	87
13) Acrolein	2.29	56	135	Below Cal	#	40
15) Acrylonitrile	3.16	53	302	Below Cal	#	88
16) Acetone	2.45	43	1938	Below Cal		93
18) Methyl Acetate	2.78	43	164	Below Cal	#	31
19) Methyl tert-butyl Ether	3.20	73	157	Below Cal	#	66
20) Methylene Chloride	2.86	84	1036	Below Cal	#	96
22) Diisopropyl ether	3.88	45	99	Below Cal	#	67
27) cis-1,2-Dichloroethene	4.60	96	4868	1.45	ug/l	13
28) Bromochloromethane	5.03	49	29	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	1532	0.92	ug/l	93
30) Chloroform	5.23	83	3407	0.59	ug/l	98
36) 1,1-Dichloropropene	5.67	75	18845	4.69	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	25013	5.95	ug/l	# 16
39) Methylcyclohexane	7.46	83	288	0.32	ug/l	# 83
44) Trichloroethene	7.21	130	32181	9.42	ug/l	96
60) Dibromochloromethane	9.34	129	1058	0.33	ug/l	# 11
64) Tetrachloroethene	9.34	164	1120	0.31	ug/l	91
76) 1,2,3-Trichloropropane	11.14	75	106195	23.69	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	106195	83.05	ug/l	# 6

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002282.D

Acq: 05 Jun 2018 01:52

Instrument :

MSVOA_X

ClientSampleId :

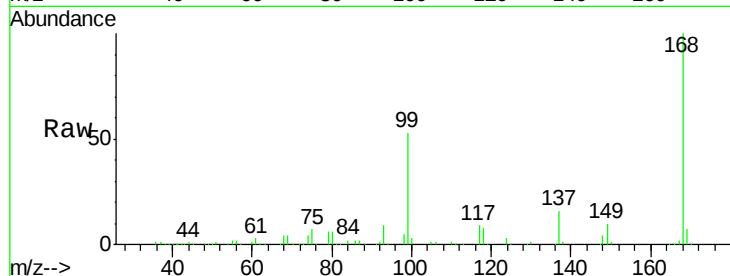
SS004MW153-180529

Tot Ion:168 Resp: 263498

Ion Ratio Lower Upper

168 100

99 52.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

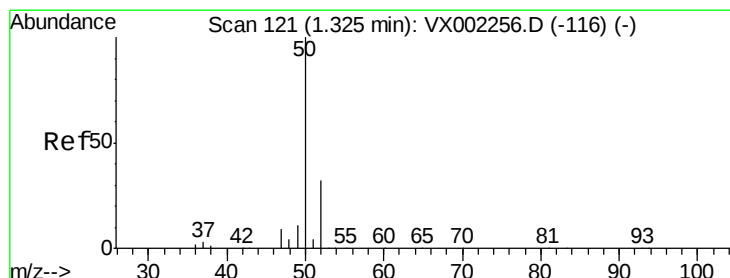
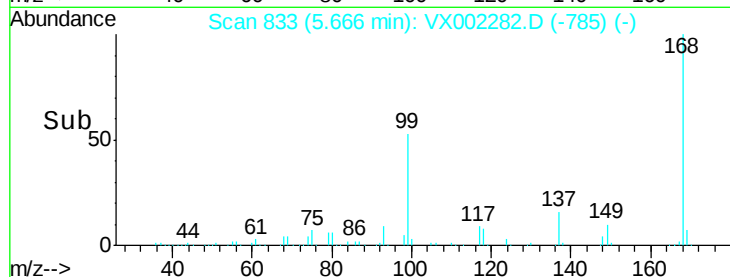
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002282.D

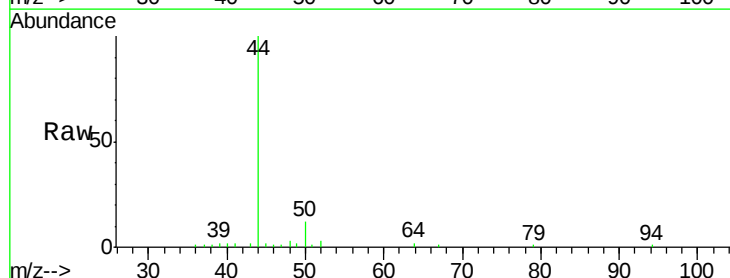
Acq: 05 Jun 2018 01:52

Tgt Ion: 50 Resp: 1322

Ion Ratio Lower Upper

50 100

52 26.7 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1200

1000

800

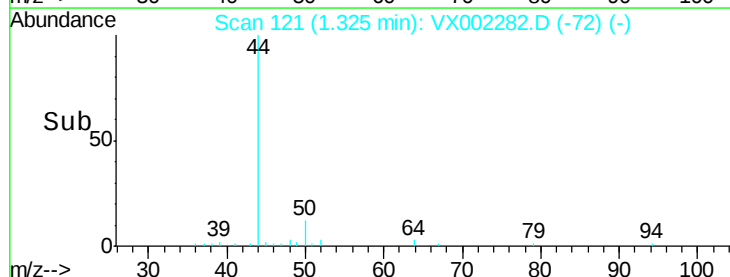
600

400

200

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX002282.D

Acq: 05 Jun 2018 01:52

Instrument :

MSVOA_X

ClientSampleId :

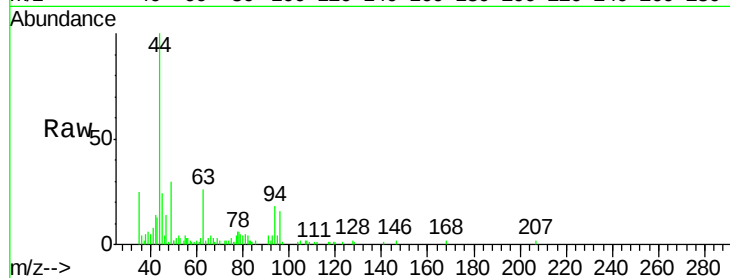
SS004MW153-180529

Tot Ion: 94 Resp: 1579

Ion Ratio Lower Upper

94 100

96 94.8 74.9 112.3

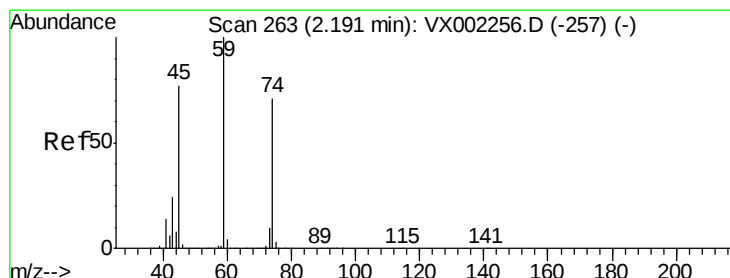
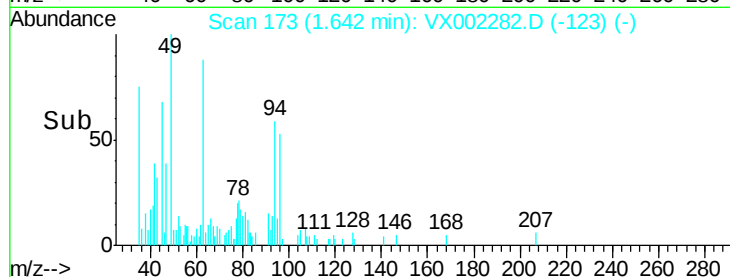


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 2.18 min Scan# 262

Delta R.T. -0.01 min

Lab File: VX002282.D

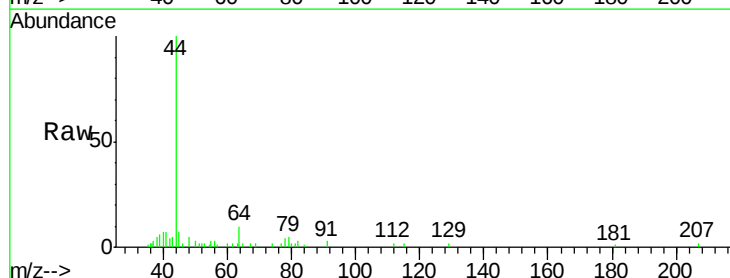
Acq: 05 Jun 2018 01:52

Tgt Ion: 74 Resp: 44

Ion Ratio Lower Upper

74 100

45 215.9 53.1 159.4#

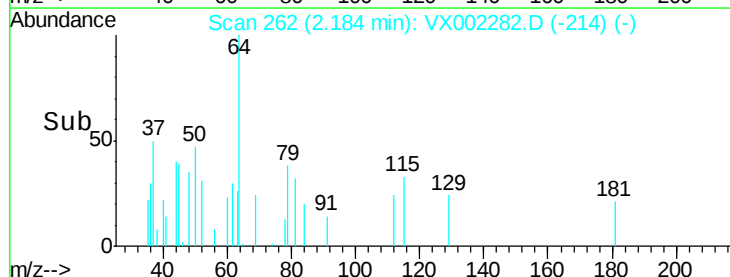


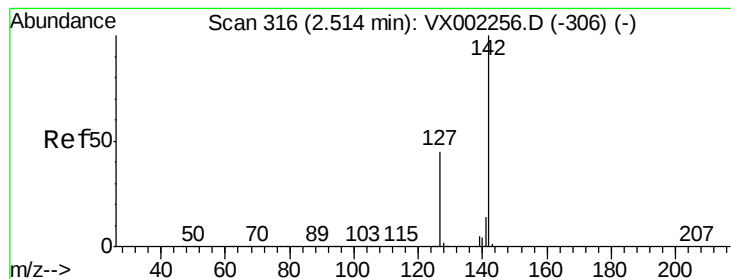
Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.18

Time-->





#10

Methvl Iodide

Concen: 0.41 ua/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002282.D

Acq: 05 Jun 2018 01:52

Instrument :

MSVOA_X

ClientSampleId :

SS004MW153-180529

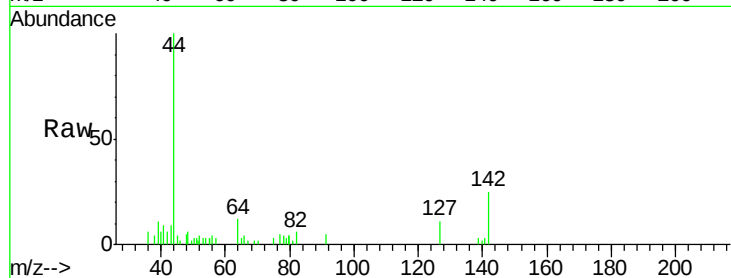
Tot Ion:142 Resp: 1630

Ion Ratio Lower Upper

142 100

127 47.7 36.6 55.0

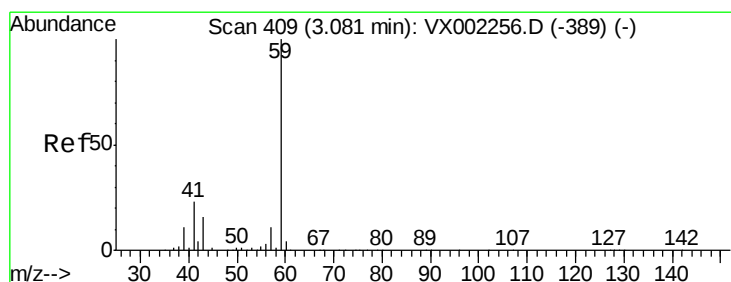
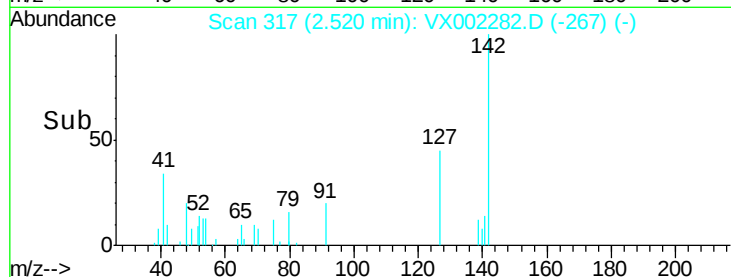
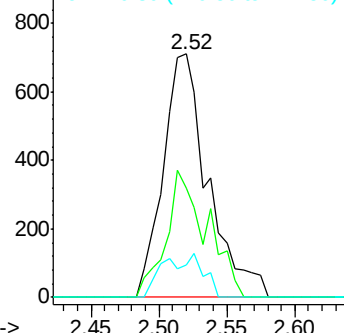
141 7.8 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.02 min Scan# 399

Delta R.T. -0.06 min

Lab File: VX002282.D

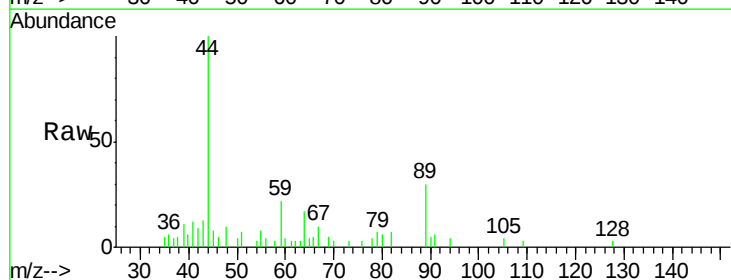
Acq: 05 Jun 2018 01:52

Tgt Ion: 59 Resp: 1154

Ion Ratio Lower Upper

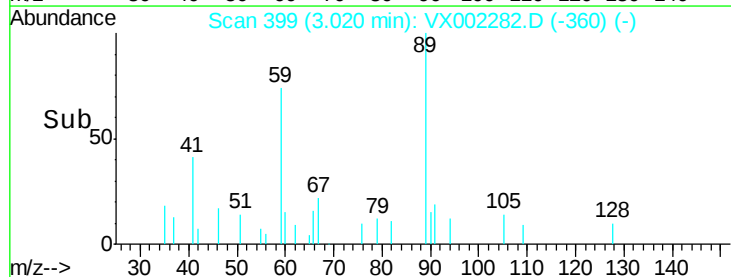
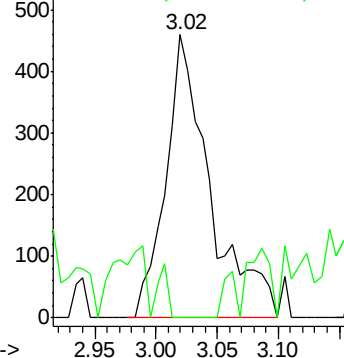
59 100

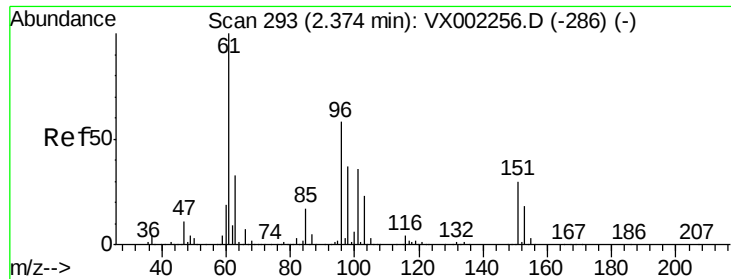
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

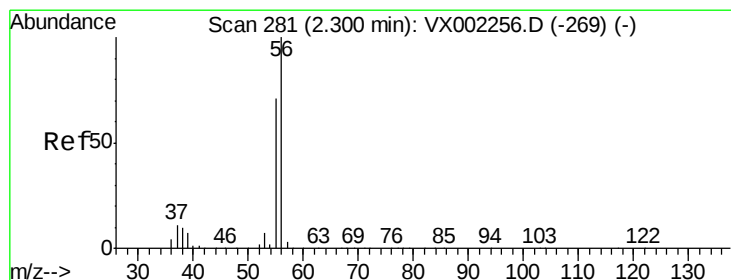
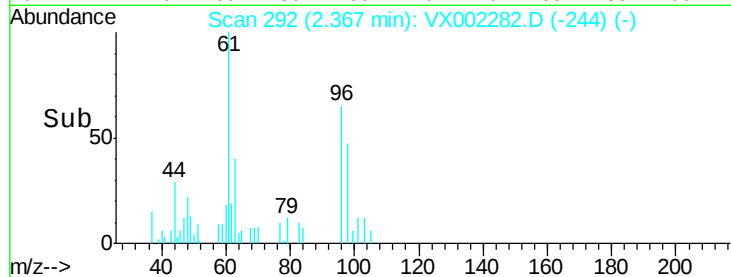
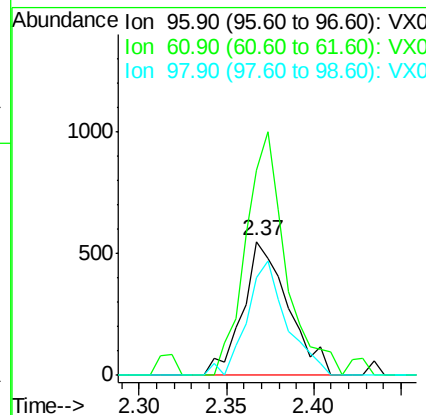
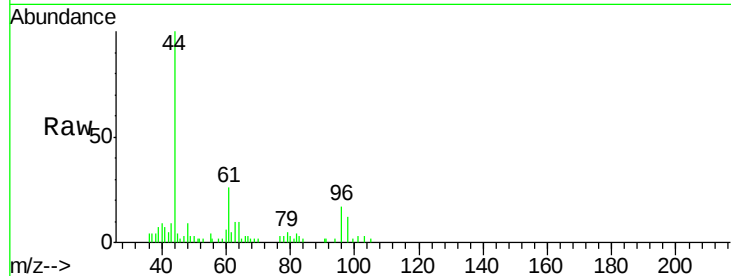




#12
 1,1-Dichloroethene
 Concen: 0.35 ug/l
 RT: 2.37 min Scan# 292
 Delta R.T. -0.01 min
 Lab File: VX002282.D
 Acq: 05 Jun 2018 01:52

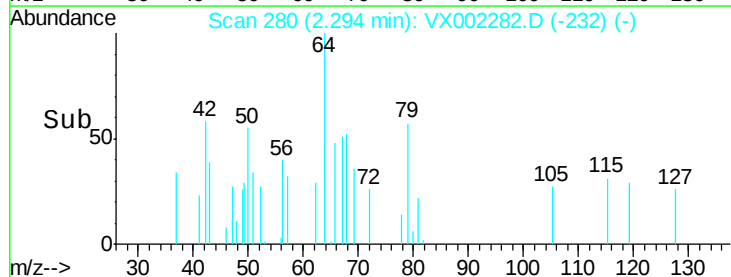
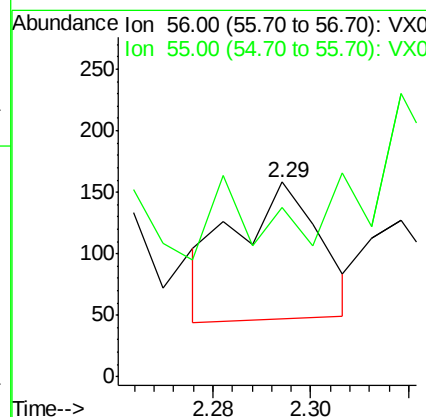
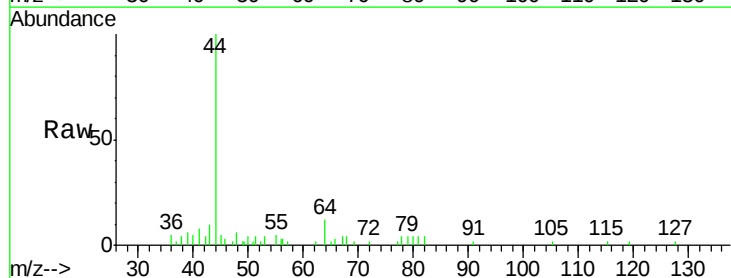
Instrument :
 MSVOA_X
 ClientSampleId :
 SS004MW153-180529

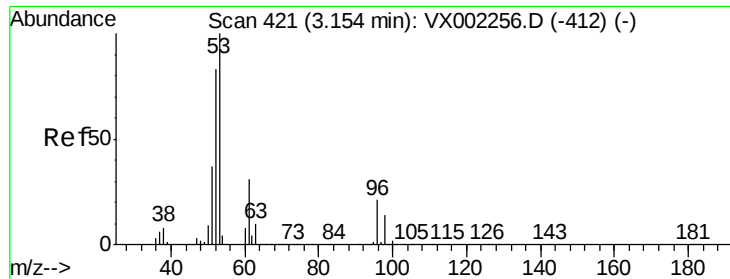
Tot Ion	96	Resp	989
Ion	Ratio	Lower	Upper
96	100		
61	153.6	137.9	206.9
98	72.9	51.6	77.4



#13
 Acrolein
 Concen: Below Cal
 RT: 2.29 min Scan# 280
 Delta R.T. -0.01 min
 Lab File: VX002282.D
 Acq: 05 Jun 2018 01:52

Tgt Ion	56	Resp	135
Ion	Ratio	Lower	Upper
56	100		
55	21.5	57.0	85.4#

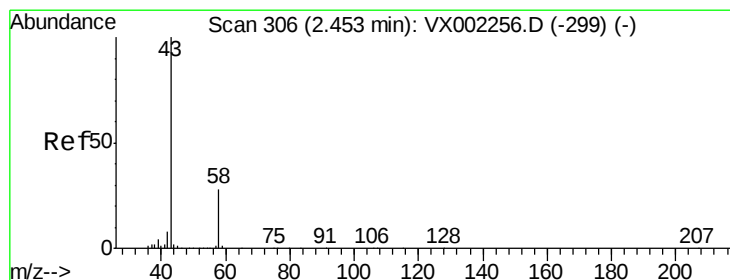
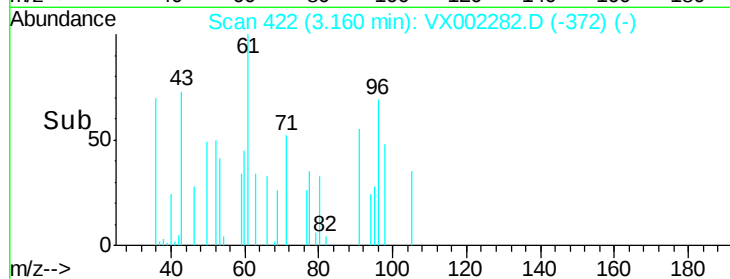
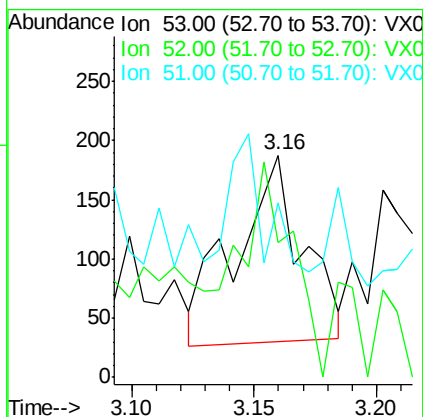
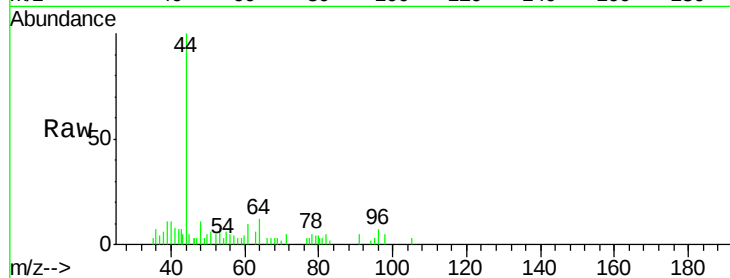




#15
Acrylonitrile
Concen: Below Cal
RT: 3.16 min Scan# 422
Delta R.T. 0.01 min
Lab File: VX002282.D
Acq: 05 Jun 2018 01:52

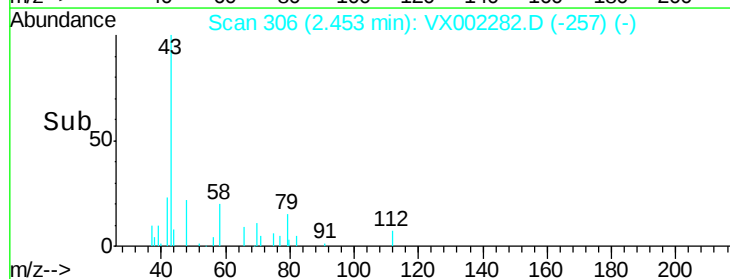
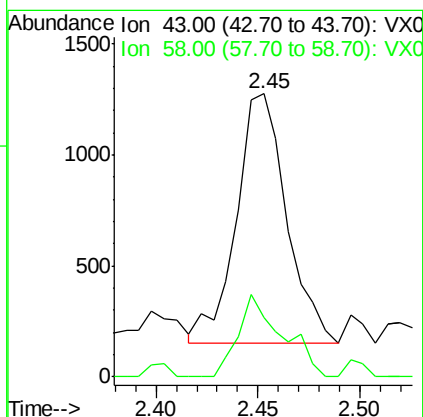
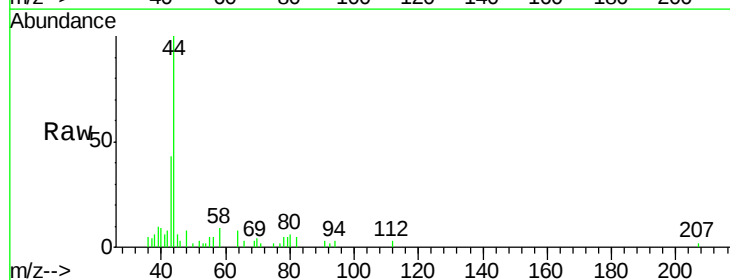
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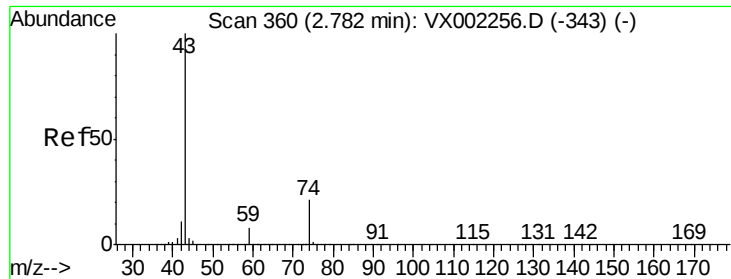
Tot Ion: 53 Resp: 302
Ion Ratio Lower Upper
53 100
52 92.7 66.7 100.1
51 47.0 29.9 44.9#



#16
Acetone
Concen: Below Cal
RT: 2.45 min Scan# 306
Delta R.T. 0.00 min
Lab File: VX002282.D
Acq: 05 Jun 2018 01:52

Tgt Ion: 43 Resp: 1938
Ion Ratio Lower Upper
43 100
58 23.8 22.1 33.1

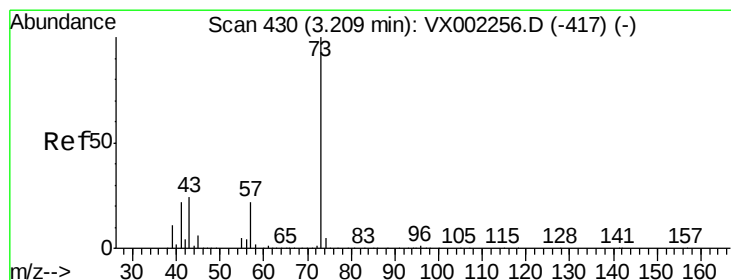
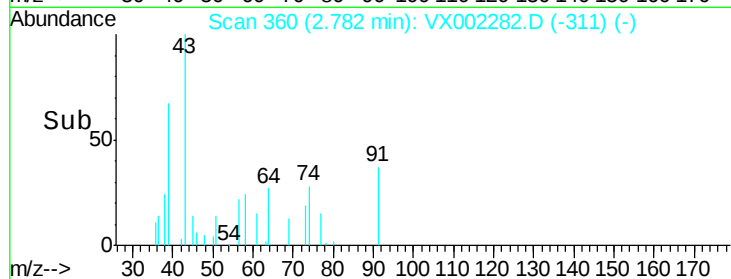
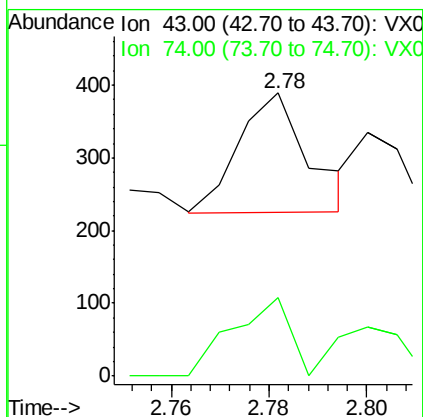
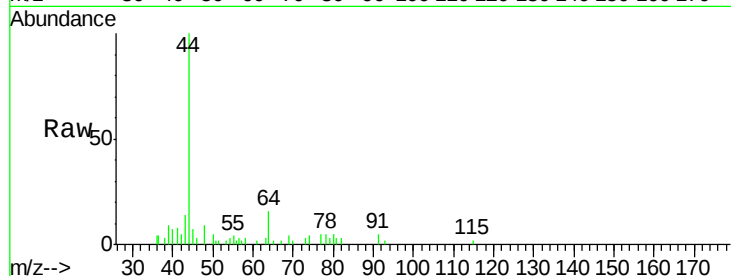




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX002282.D
Acq: 05 Jun 2018 01:52

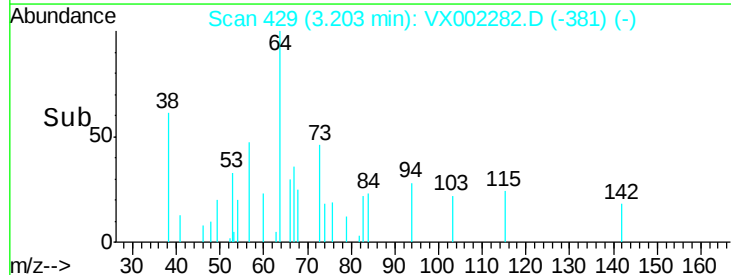
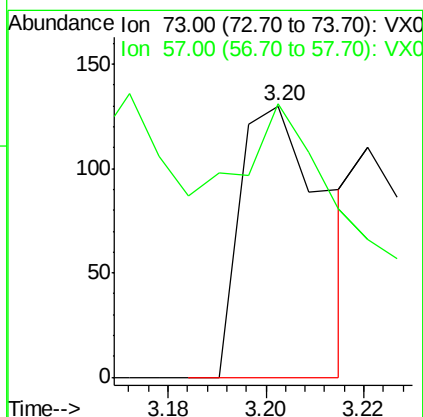
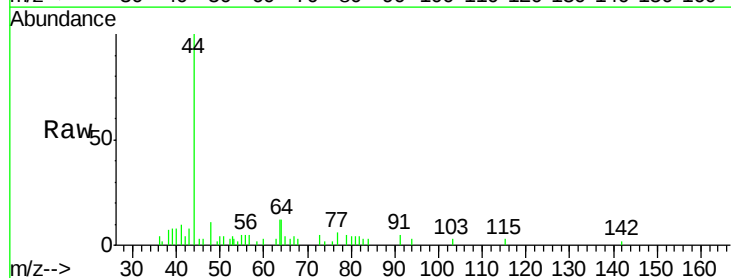
Instrument :
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ClientSampleId :
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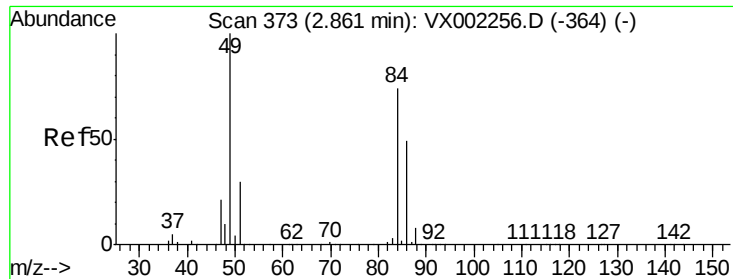
Tot Ion: 43 Resp: 164
Ion Ratio Lower Upper
43 100
74 53.0 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.20 min Scan# 429
Delta R.T. -0.01 min
Lab File: VX002282.D
Acq: 05 Jun 2018 01:52

Tgt Ion: 73 Resp: 157
Ion Ratio Lower Upper
73 100
57 38.5 17.7 26.5#

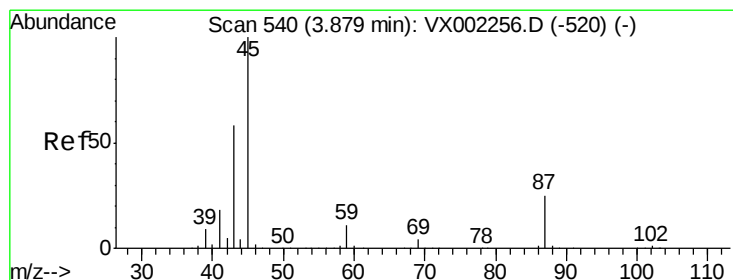
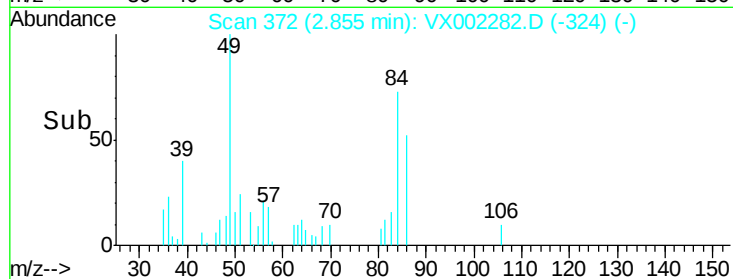
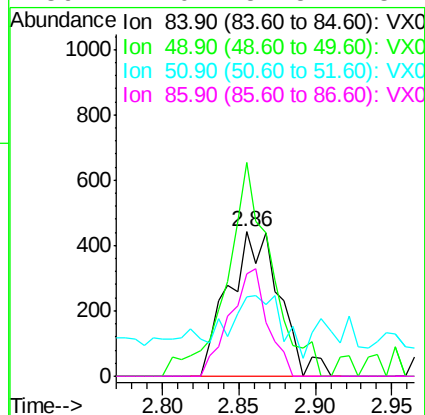
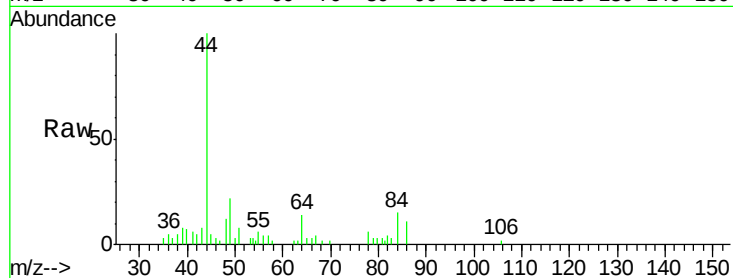




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX002282.D
Acq: 05 Jun 2018 01:52

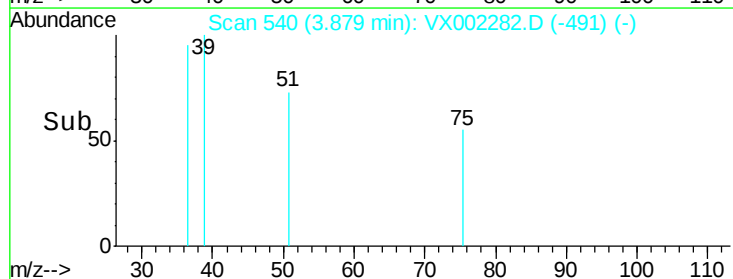
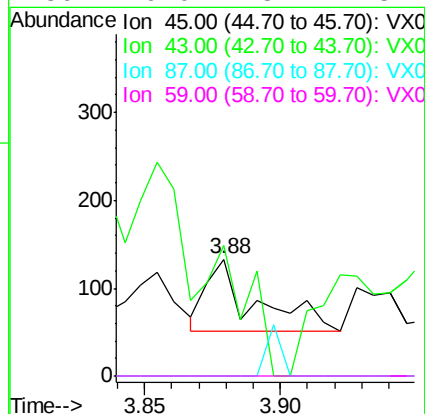
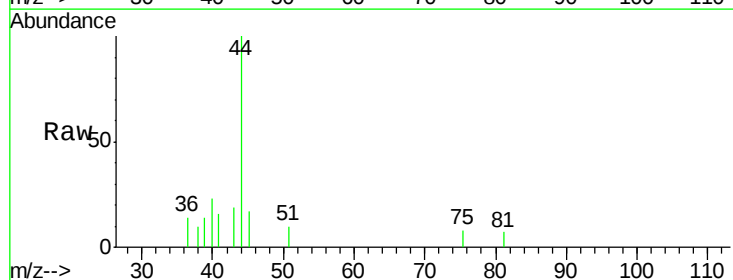
Instrument :
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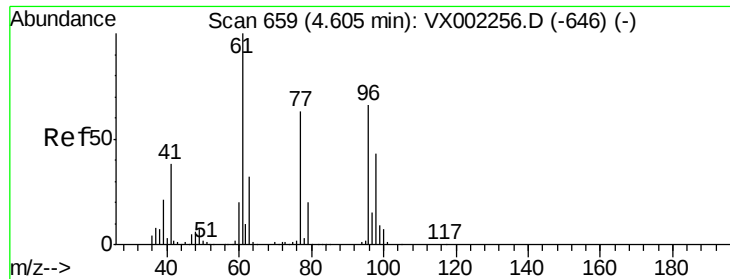
Tot Ion: 84 Resp: 1036
Ion Ratio Lower Upper
84 100
49 135.4 107.8 161.6
51 32.7 32.8 49.2#
86 71.0 52.5 78.7



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.88 min Scan# 540
Delta R.T. 0.00 min
Lab File: VX002282.D
Acq: 05 Jun 2018 01:52

Tgt Ion: 45 Resp: 99
Ion Ratio Lower Upper
45 100
43 77.8 46.8 70.2#
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#





#27

cis-1,2-Dichloroethene

Concen: 1.45 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.01 min

Lab File: VX002282.D

Acq: 05 Jun 2018 01:52

Instrument :

MSVOA_X

ClientSampleId :

SS004MW153-180529

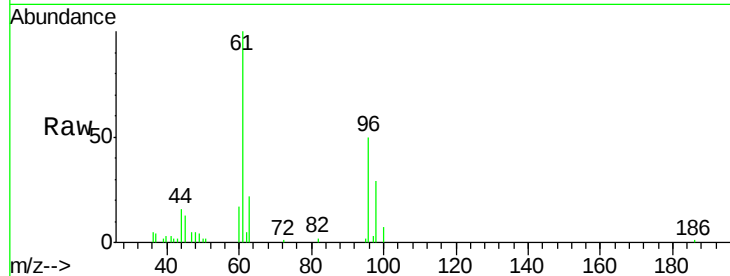
Tot Ion: 96 Resp: 4868

Ion Ratio Lower Upper

96 100

61 327.4 0.0 330.2

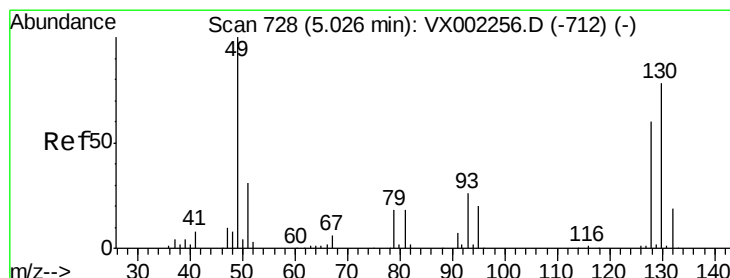
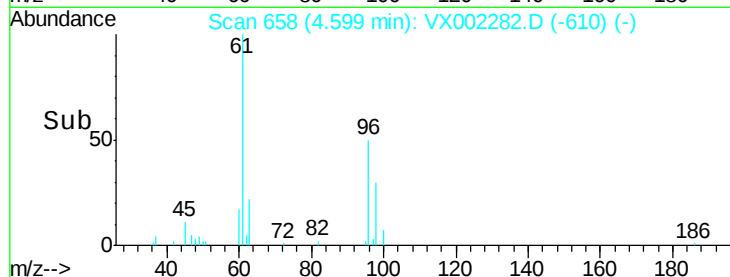
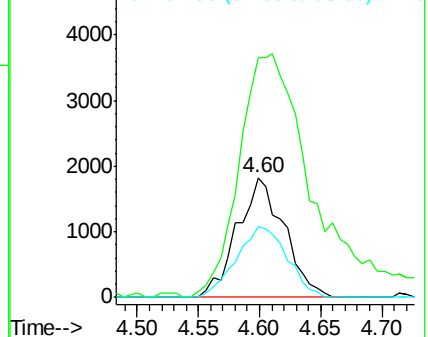
98 63.9 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 728

Delta R.T. 0.00 min

Lab File: VX002282.D

Acq: 05 Jun 2018 01:52

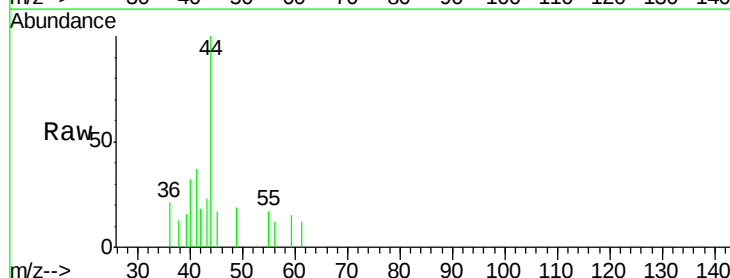
Tgt Ion: 49 Resp: 29

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

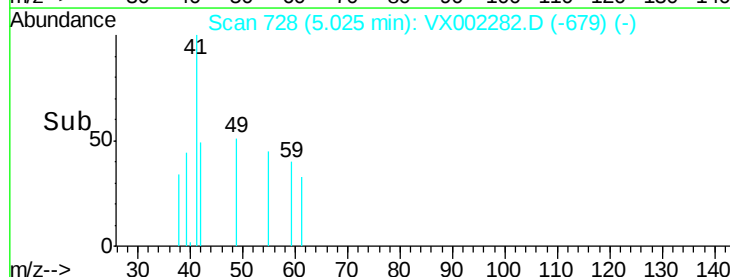
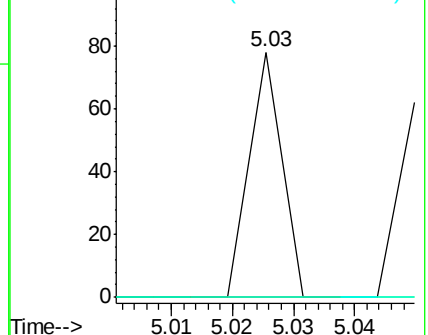
130 0.0 61.2 91.8#

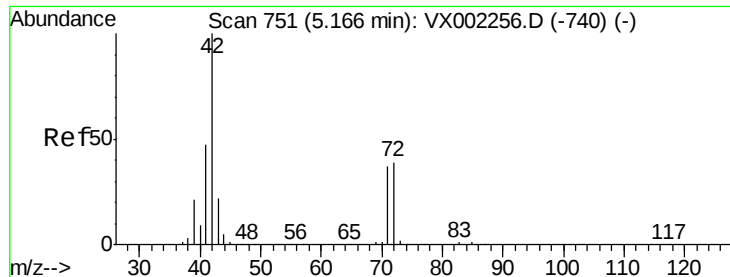


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.92 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX002282.D

Acq: 05 Jun 2018 01:52

Instrument :

MSVOA_X

ClientSampleId :

SS004MW153-180529

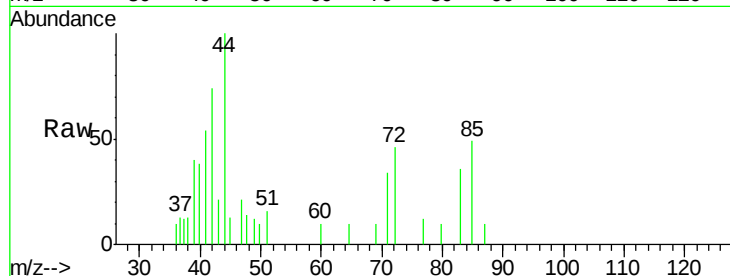
Tot Ion: 42 Resp: 1532

Ion Ratio Lower Upper

42 100

72 37.2 32.0 48.0

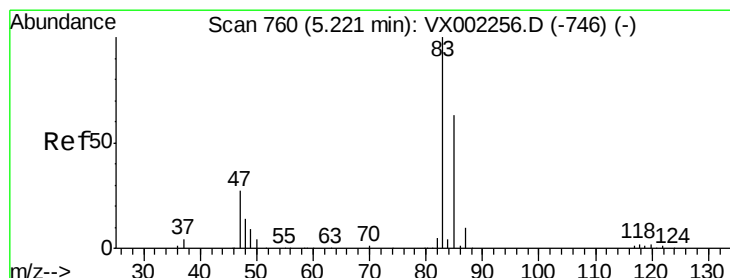
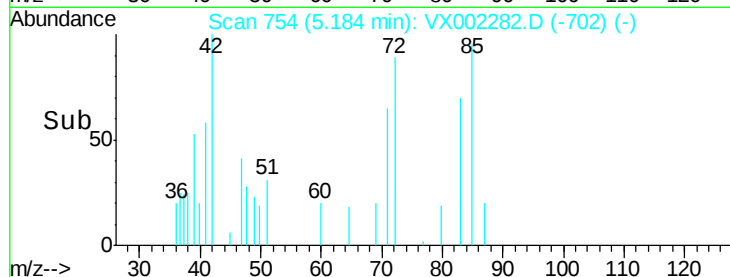
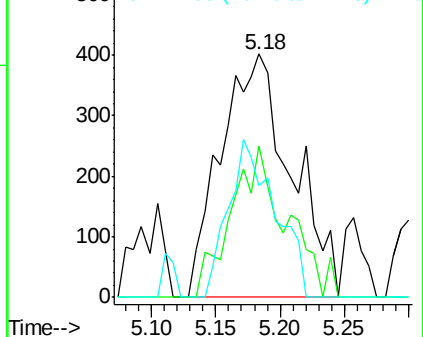
71 43.3 30.1 45.1



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#30

Chloroform

Concen: 0.59 ug/l

RT: 5.23 min Scan# 761

Delta R.T. 0.01 min

Lab File: VX002282.D

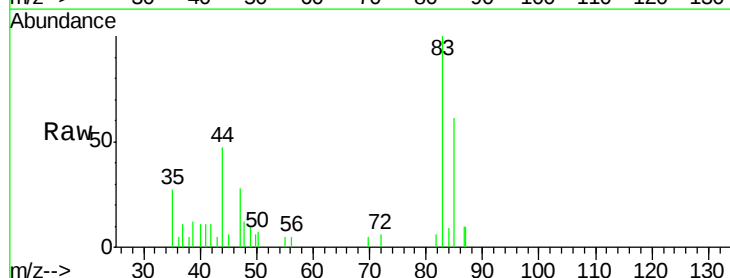
Acq: 05 Jun 2018 01:52

Tgt Ion: 83 Resp: 3407

Ion Ratio Lower Upper

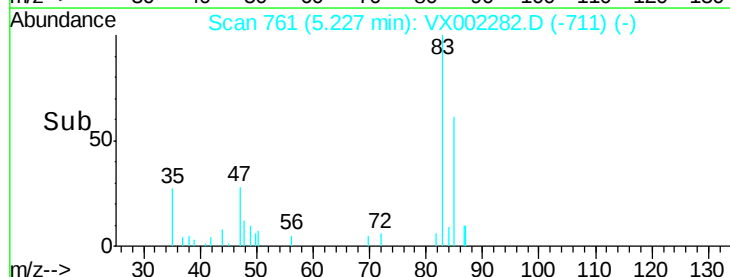
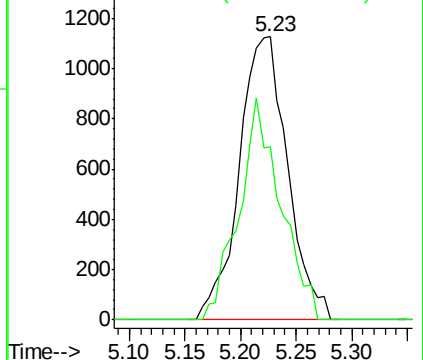
83 100

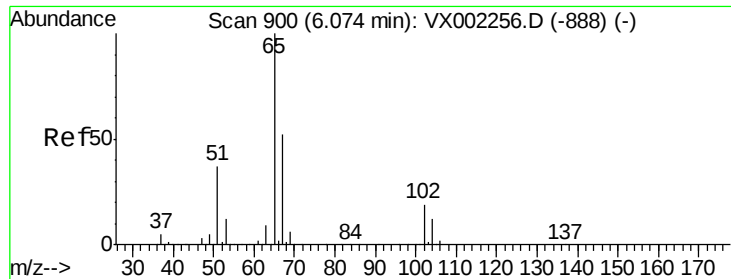
85 61.3 50.4 75.6



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

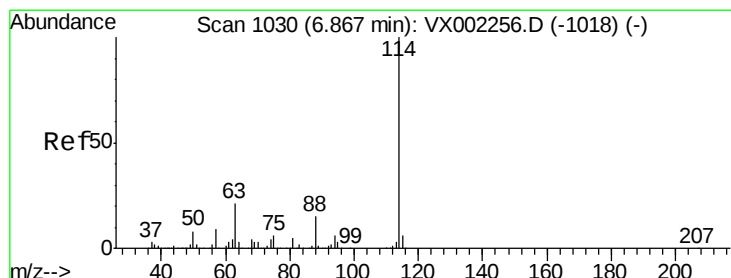
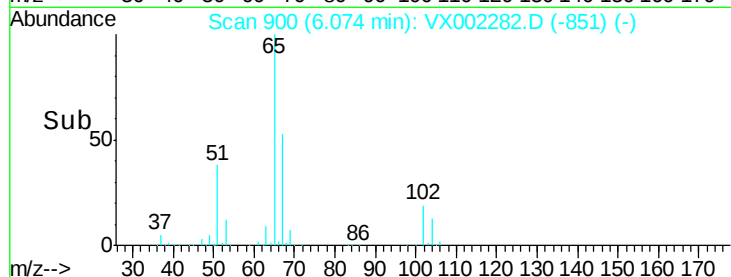
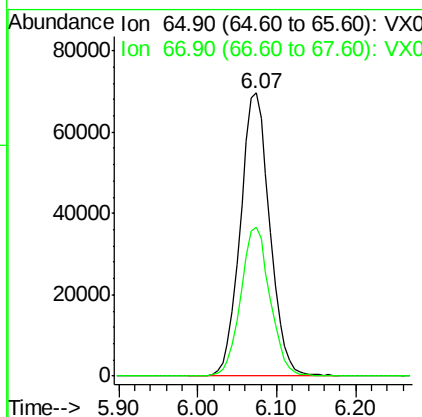
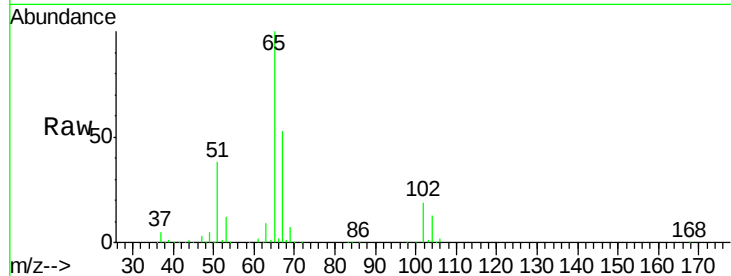




#33
 1,2-Dichloroethane-d4
 Concen: 47.87 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002282.D
 Acq: 05 Jun 2018 01:52

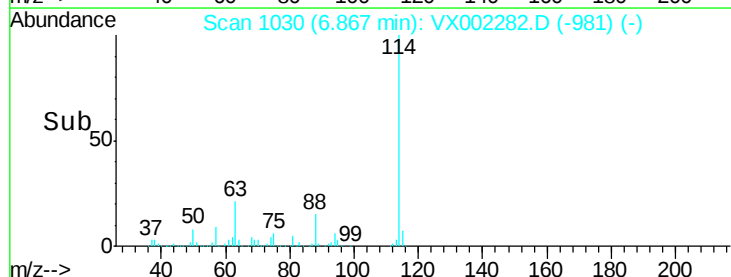
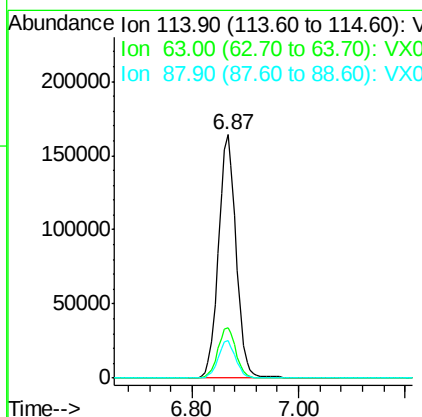
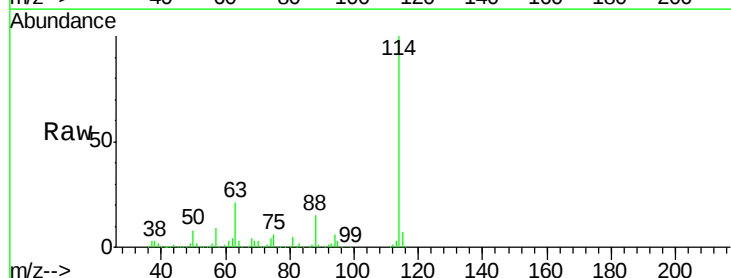
Instrument :
 MSVOA_X
 ClientSampleId :
 SS004MW153-180529

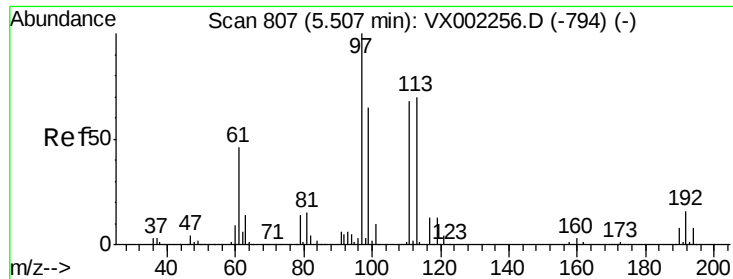
Tot Ion: 65 Resp: 180918
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002282.D
 Acq: 05 Jun 2018 01:52

Tgt Ion: 114 Resp: 382031
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 41.4
 88 15.4 0.0 30.0





#35

Dibromofluoromethane

Concen: 44.36 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002282.D

Acq: 05 Jun 2018 01:52

Instrument :

MSVOA_X

ClientSampleId :

SS004MW153-180529

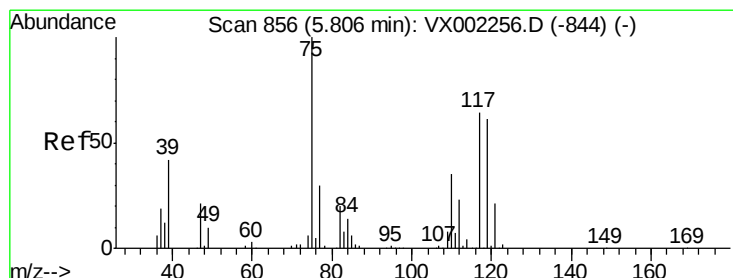
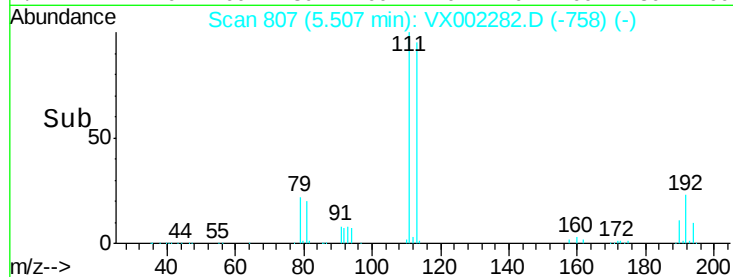
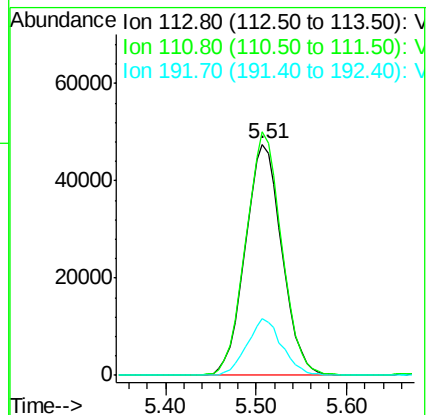
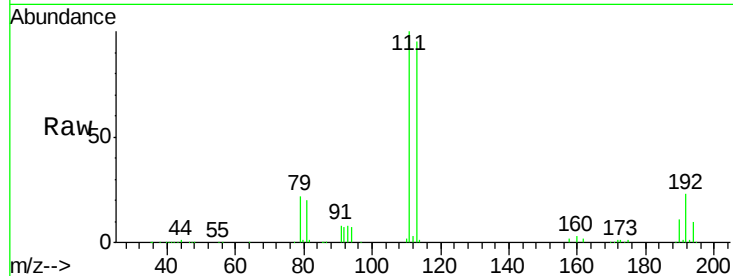
Tot Ion:113 Resp: 133266

Ion Ratio Lower Upper

113 100

111 103.5 81.4 122.0

192 23.6 19.1 28.7



#36

1,1-Dichloropropene

Concen: 4.69 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002282.D

Acq: 05 Jun 2018 01:52

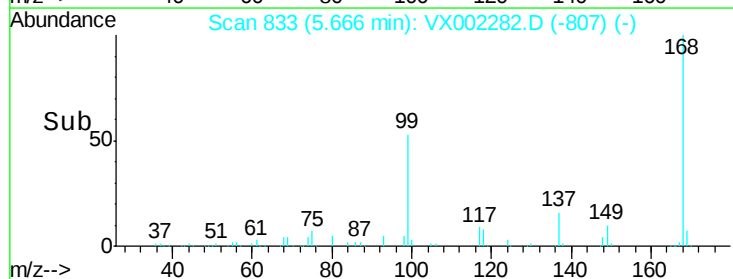
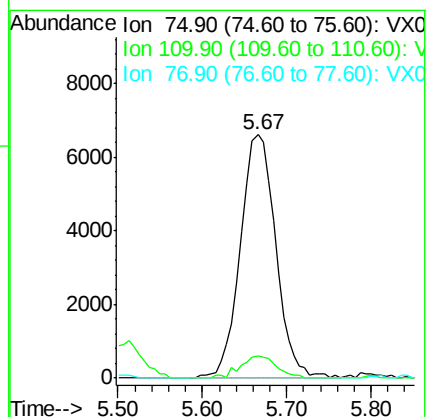
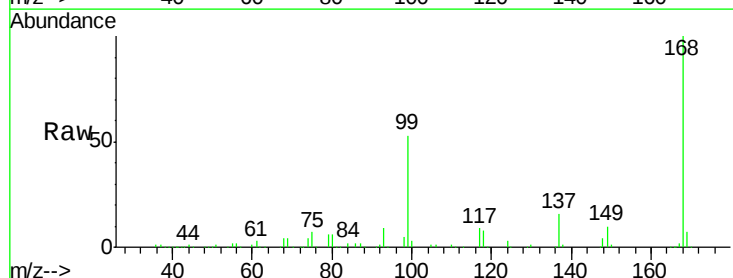
Tgt Ion: 75 Resp: 18845

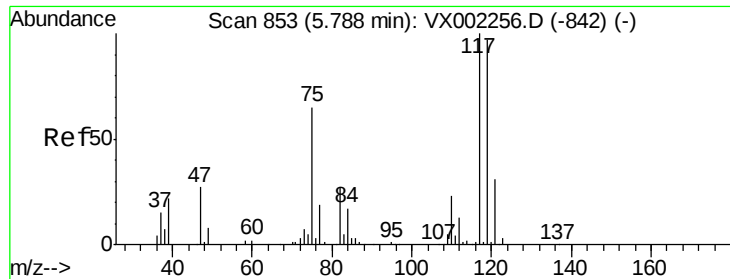
Ion Ratio Lower Upper

75 100

110 9.4 18.1 54.4#

77 0.0 24.3 36.5#

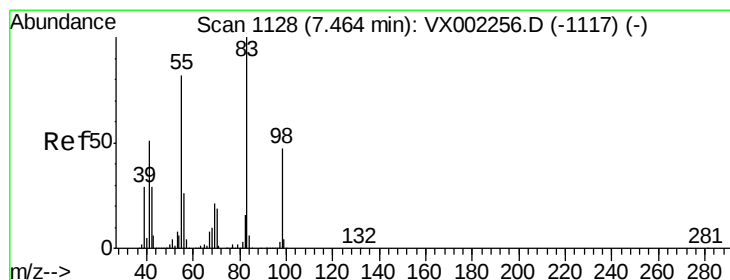
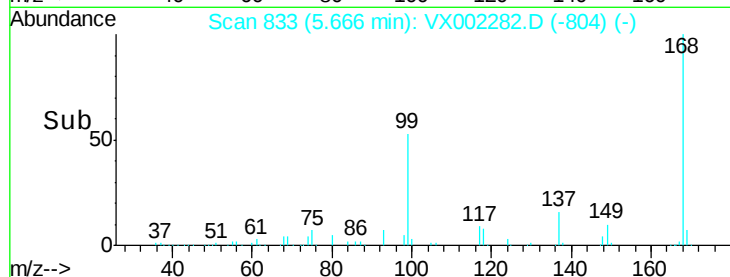
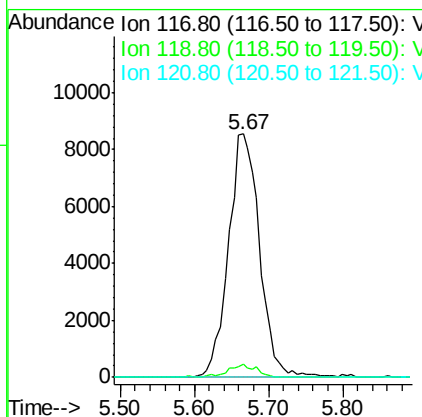
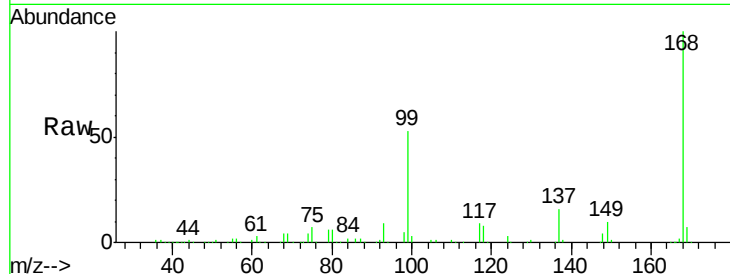




#38
Carbon Tetrachloride
Concen: 5.95 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX002282.D
Acq: 05 Jun 2018 01:52

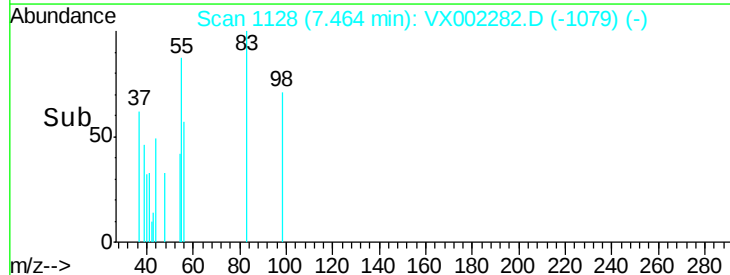
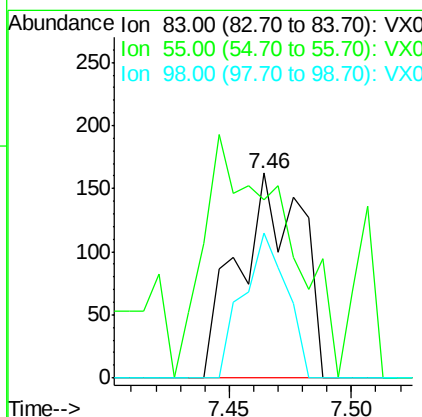
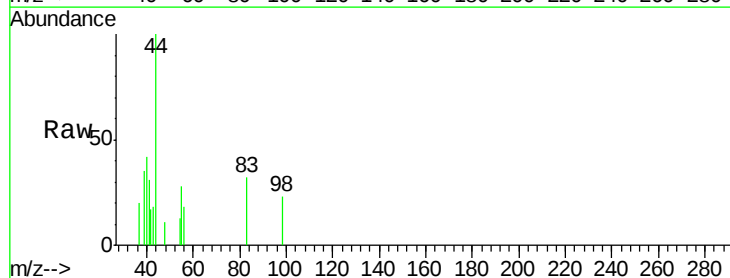
Instrument :
MSVOA_X
ClientSampleId :
SS004MW153-180529

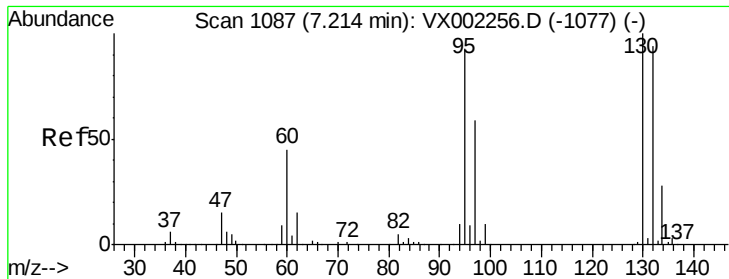
Tot Ion:117 Resp: 25013
Ion Ratio Lower Upper
117 100
119 5.2 77.4 116.0#
121 0.0 24.4 36.6#



#39
Methylcyclohexane
Concen: 0.32 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VX002282.D
Acq: 05 Jun 2018 01:52

Tgt Ion: 83 Resp: 288
Ion Ratio Lower Upper
83 100
55 87.0 65.4 98.0
98 71.0 37.4 56.0#





#44

Trichloroethene

Concen: 9.42 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX002282.D

Acq: 05 Jun 2018 01:52

Instrument :

MSVOA_X

ClientSampleId :

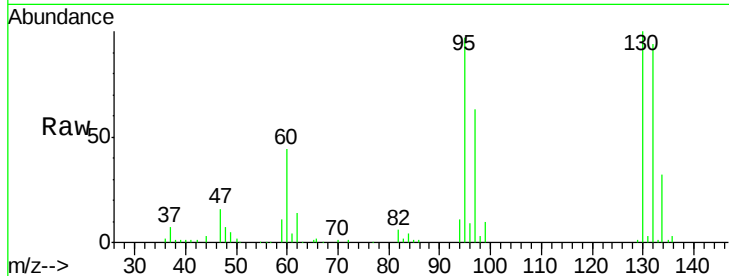
SS004MW153-180529

Tot Ion:130 Resp: 32181

Ion Ratio Lower Upper

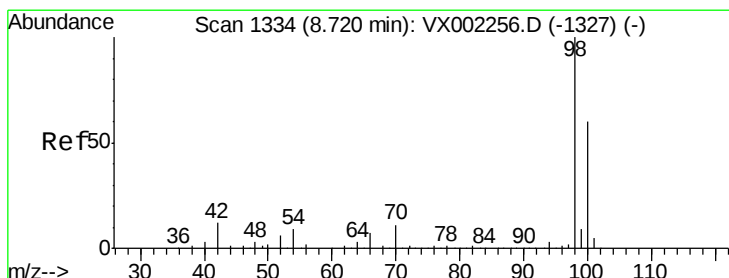
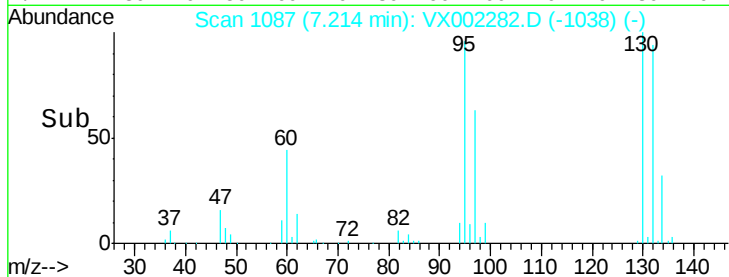
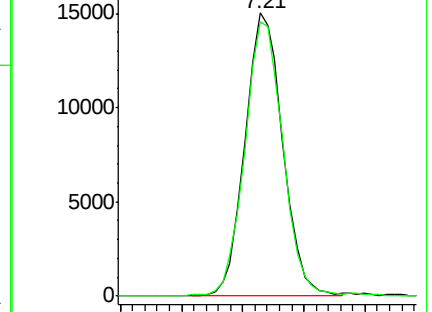
130 100

95 96.3 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 47.87 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002282.D

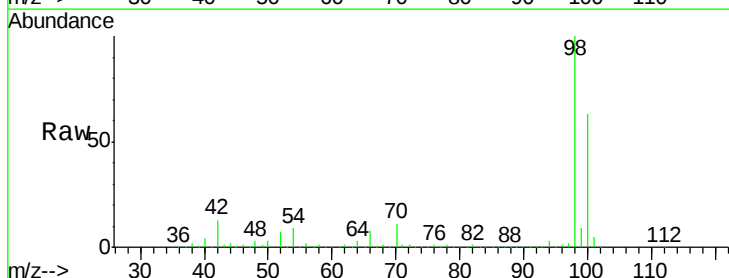
Acq: 05 Jun 2018 01:52

Tgt Ion: 98 Resp: 551186

Ion Ratio Lower Upper

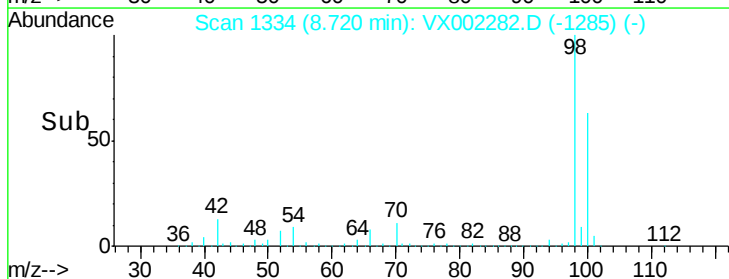
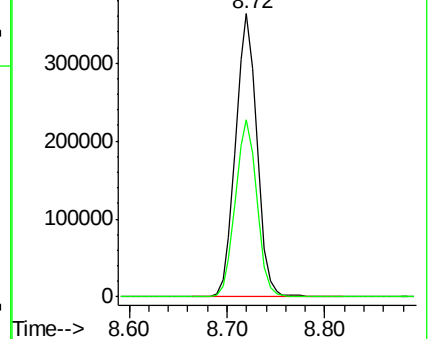
98 100

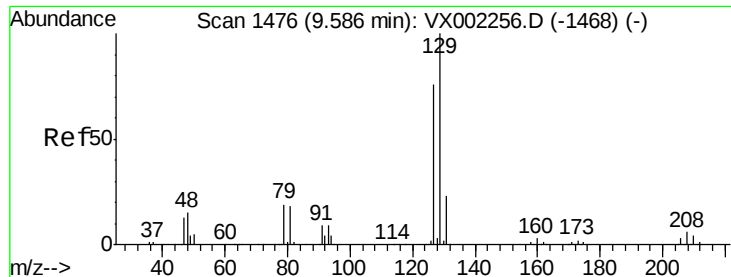
100 63.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

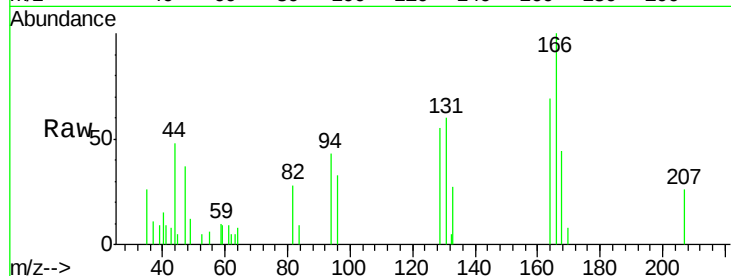




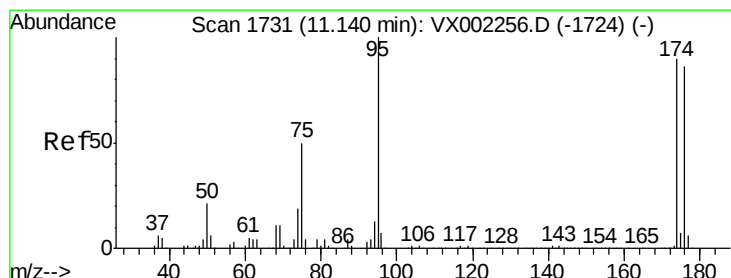
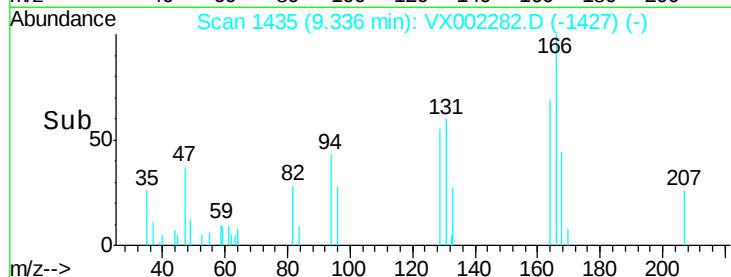
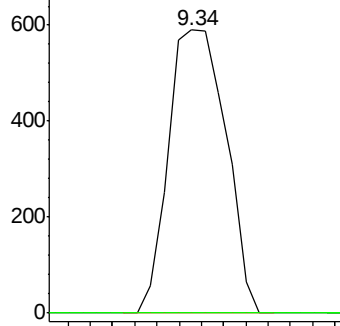
#60
Dibromochloromethane
Concen: 0.33 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX002282.D
Acq: 05 Jun 2018 01:52

Instrument :
MSVOA_X
ClientSampleId :
SS004MW153-180529

Tot Ion:129 Resp: 1058
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#

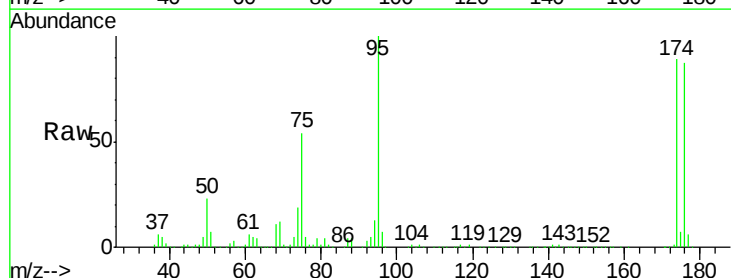


Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

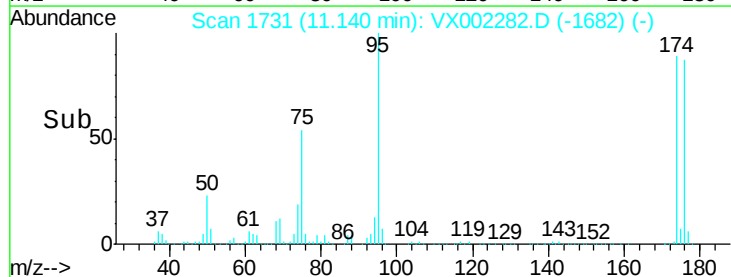
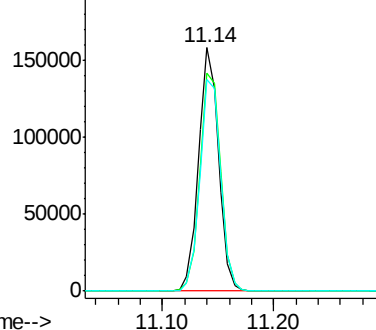


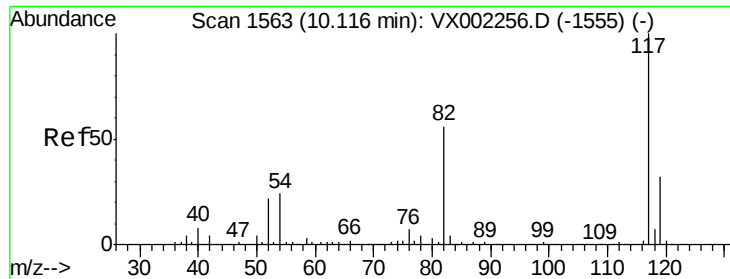
#62
4-Bromofluorobenzene
Concen: 44.14 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002282.D
Acq: 05 Jun 2018 01:52

Tgt Ion: 95 Resp: 196015
Ion Ratio Lower Upper
95 100
174 93.5 0.0 187.4
176 90.7 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

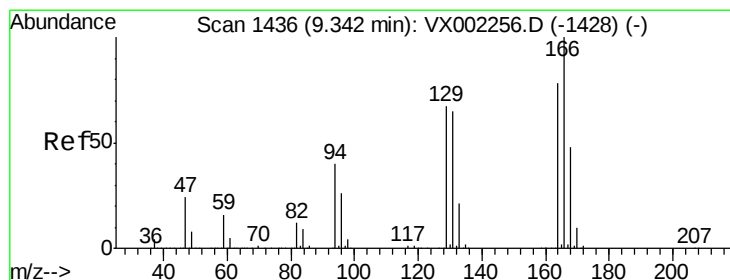
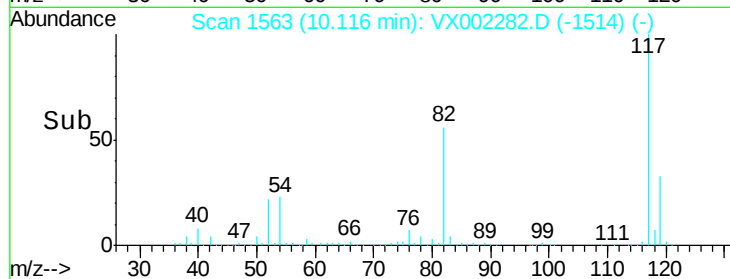
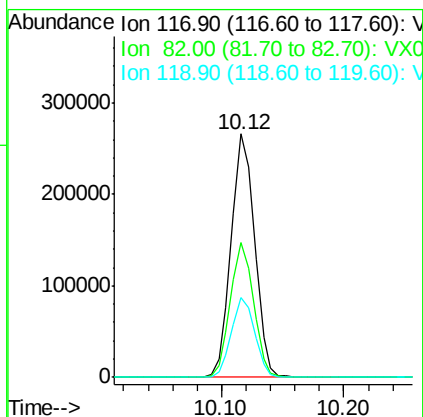
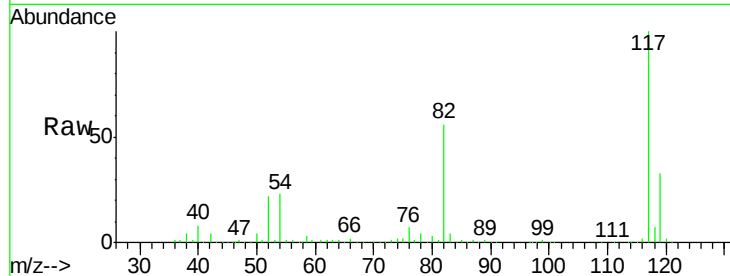




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002282.D
Acq: 05 Jun 2018 01:52

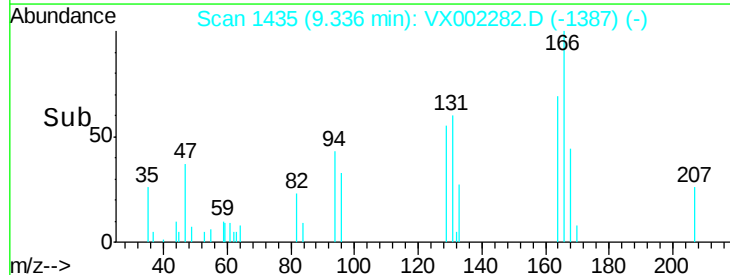
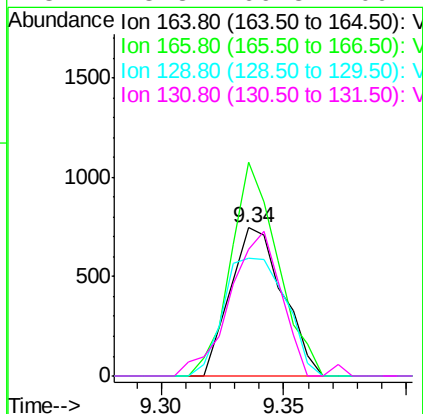
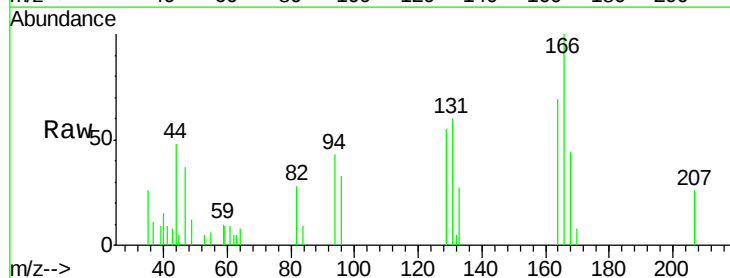
Instrument :
MSVOA_X
ClientSampleId :
SS004MW153-180529

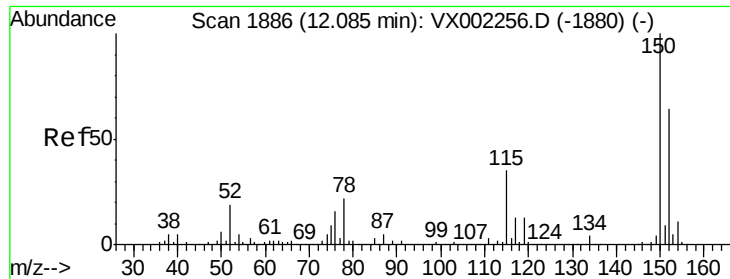
Tot Ion:117 Resp: 353363
Ion Ratio Lower Upper
117 100
82 55.5 45.0 67.4
119 32.5 25.8 38.6



#64
Tetrachloroethene
Concen: 0.31 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.01 min
Lab File: VX002282.D
Acq: 05 Jun 2018 01:52

Tgt Ion:164 Resp: 1120
Ion Ratio Lower Upper
164 100
166 143.9 102.9 154.3
129 79.0 68.6 102.8
131 78.3 66.8 100.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002282.D

Acq: 05 Jun 2018 01:52

Instrument :

MSVOA_X

ClientSampleId :

SS004MW153-180529

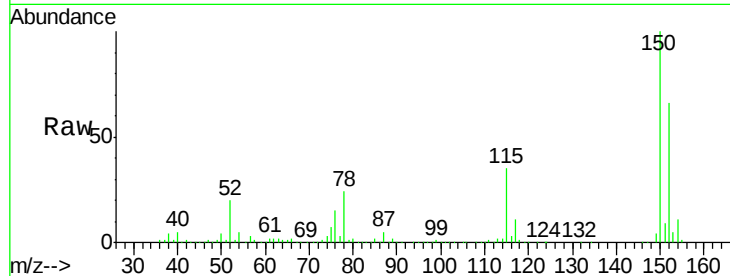
Tot Ion:152 Resp: 204268

Ion Ratio Lower Upper

152 100

115 54.9 40.1 120.2

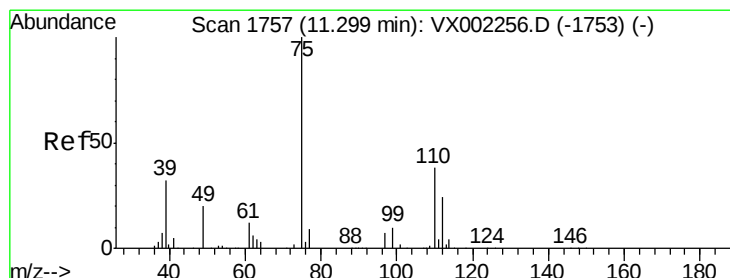
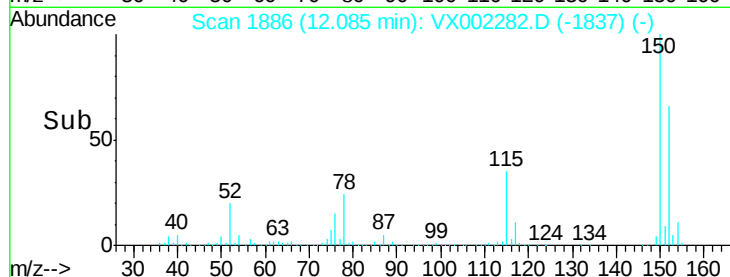
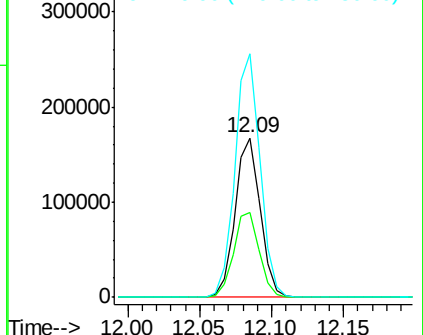
150 153.4 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.69 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002282.D

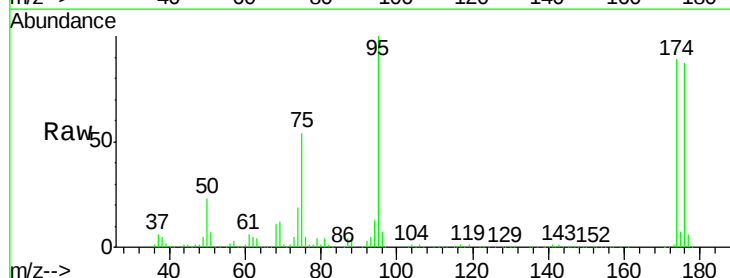
Acq: 05 Jun 2018 01:52

Tgt Ion: 75 Resp: 106195

Ion Ratio Lower Upper

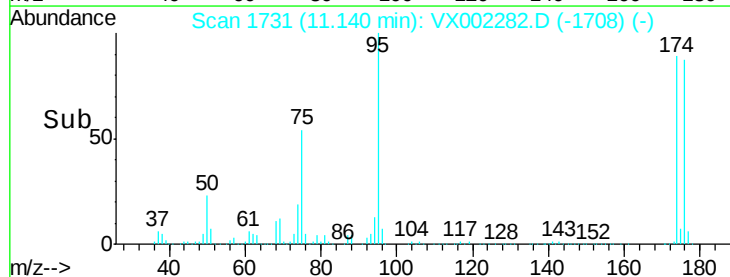
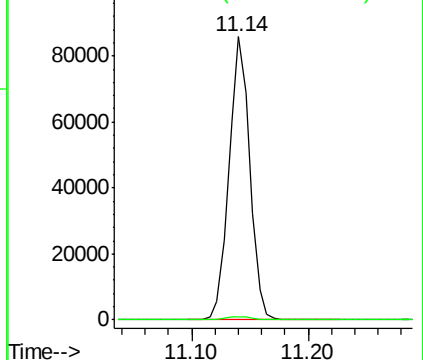
75 100

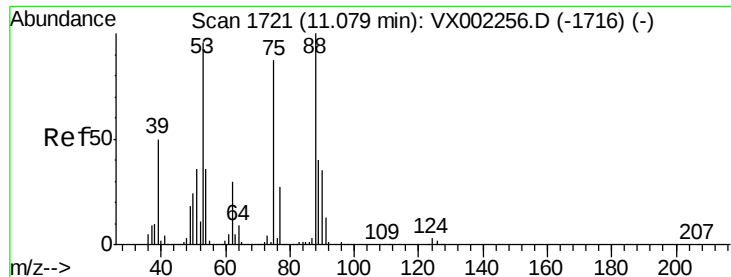
77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81
 trans-1,4-Dichloro-2-butene
 Concen: 83.05 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002282.D
 Acq: 05 Jun 2018 01:52

Instrument :
 MSVOA_X
 ClientSampleId :
 SS004MW153-180529

Tot Ion: 75 Resp: 106195
 Ion Ratio Lower Upper
 75 100
 53 0.0 86.8 130.2#
 89 0.0 38.2 57.2#

